NOTES:

1. FOR GENERAL NOTES REFER TO 000-PR-PID-0001/0002/0003/0004.
2. ALL INSTRUMENT TAGS ARE PREFIXED WITH THE AREA NUMBER SHOWN ON THIS P&ID UNLESS OTHERWISE NOTED.
3. REAGENT ADDITION TO CELL 2 VIA A VENDOR SUPPLIED TUNDISH.
4. FLOTATION CELL DART VALVES MAY BE OPERATED INDEPENDENTLY. CONTROL PROGRAMMING SHALL INCLUDE PROVISION FOR INDEPENDENT DART VALVE LEVEL CONTROL.
5. TUNDISH INSTALLED ABOVE WORKING LEVEL.
6. FUTURE RECIRCULATING FEED NOZZLE.
7. LAUNDER SPRAYS SHOWN ON 332-PR-PID-9023.

VENDOR PACKAGE
REFER TO VENDOR P&ID
1824-V0015-PR-PID-0002

PROCESS WATER
332-PR-PID-2001

FLOTATION AIR
332-PR-PID-2001

ROUGHER 2 CELL 2
PROMOTER PUMP
389-PP-9106
389-PR-PID-9101
8-RCL-PF2-064

ROUGHER 2 CELL 2
COLLECTOR PUMP
389-PP-9306
389-PR-PID-9301
20-RCL-PE3-127

269-M-004

271-M-011

127-M-001

127-M-010

127-M-011

127-M-009

SP-928
SP-335
NOTE 5
NOTE 3
NOTE 4
NOTE 6

FIT FV FIC PI LIT LIC LV
AE 2702
AE 2703

332-FA-2002
332-FA-2003

ROUGHER 2 CELL 1
332-FT-2001
332-PR-PID-2001

332-FT-2002
DN80 DN80
DN300
300-SPP-SC1-469
TO GRADE
DN50
40BA10302

332-FT-2003
DN80 DN80 DN80
DN400
NOTE 6
DN150 DN150
300-SPP-SC1-470
TO GRADE
DN300
DN50
40BA10302

ROUGHER 2 CELL 4
332-FT-2004
332-PR-PID-2003

ROUGHER 2 CELL 3 AND 4
CONC. LAUNDER
332-LA-2004
332-PR-PID-2003

ROUGHER 1 AND 2
2nd CONC. BOX 2
332-BX-9002
332-PR-PID-9001

ROUGHER 1 AND 2
2nd CONC. BOX 1
332-BX-9001
332-PR-PID-9001

332-LA-2003
332-LA-2002

332-FA-2002	ROUGHER 2 CELL 2 GEARBOX FAN
332-FA-2003	ROUGHER 2 CELL 3 GEARBOX FAN
332-FT-2002	ROUGHER 2 CELL 2
332-FT-2003	ROUGHER 2 CELL 3
332-LA-2002	ROUGHER 2 CELL 2 CONC. LAUNDER
332-LA-2003	ROUGHER 2 CELL 2 AND 3 CONC. LAUNDER

Minera Panamá

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRG No	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
		2	12MAR18	CAMERA AND VALVE NUMBERS ADDED	JM	VA	MT	SB	BG	LG	
		1	24FEB17	REVISED AS NOTED (74 MTPA CASE)	CB	BT	DB	SB	BG	SM	
		0	08OCT15	ISSUED FOR CONSTRUCTION	WG	GCP	DB	SB	BG	SM	

CLIENT MPSA

PROJECT MINA DE COBRE PANAMA

FIRST QUANTUM MINERALS LTD.

Lycopodium

Lycopodium Minerals Pty Ltd ABN: 34 055 880 209
Level 5, 1 Adelaide Terrace, East Perth, Western Australia 6004
T: +61(0) 8 6210 5222 www.lycopodium.com.au

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DRAWING TITLE
COPPER ROUGHER FLOTATION
ROUGHER 2 - SHEET 2
PIPING & INSTRUMENTATION DIAGRAM

SCALE	JOB No.	DRG No.	REV.
NTS	1824	332-PR-PID-2002	2

DRAWN JSV DATE 18NOV13